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IMAGES IN CARDIOLOGY

Snakelike Aortic Right Ventricular Tunnel With Anomalous Origin of Left Main Coronary Artery in an Adult Woman

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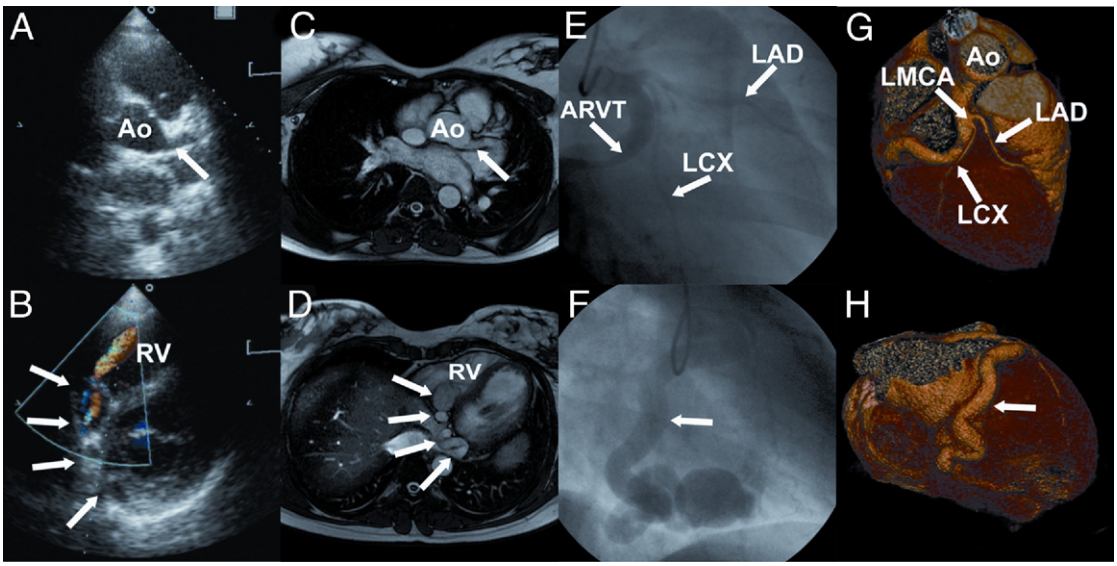

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A previously asymptomatic 31-year-old woman presented with dyspnea on exertion. After findings on transthoracic echocardiography of a dilated artery originating from the left coronary sinus **(arrow, A)** and an abnormal flow at the base of the right ventricle (RV) (**arrows, B,** Online Video 1), cardiac magnetic resonance imaging confirmed the suspected diagnosis of a large aortic right ventricular tunnel (ARVT) arising from the ascending aorta (Ao) **(arrow, C)**, moving along the left atrioventricular and then mid-ventricular grooves, and ending in the base of the RV **(arrows, D)**. Classic coronary angiography showed an anomalous origin of the left anterior descending (LAD) and left circumflex (LCX) arteries (**E,** Online Video 2) from the tortuous aneurysmal tunnel that was evident in its entire length with a snakelike appearance (**arrow, F,** Online Video 3). Computed tomography coronary angiography confirmed a very short left main coronary artery (LMCA) (**G**, Online Video 4) arising from the snakelike ARVT **(arrow, H)**. The aortic right ventricular tunnel is a rare anomalous congenital extracardiac conduit and almost always is a pediatric cardiology condition.